

LENSES REVIEW ASSESSMENT

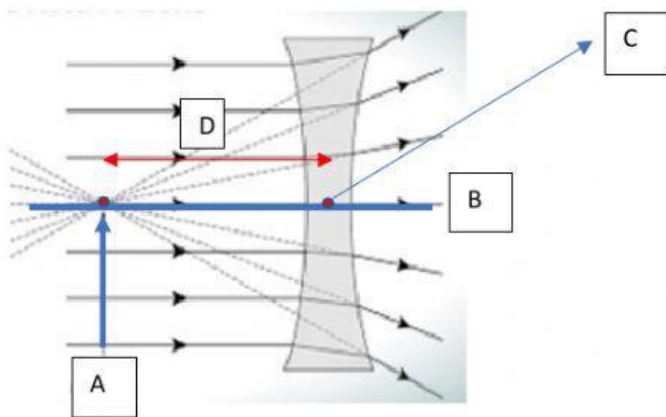
SECTION 1-LENSES TYPES

FILL IN THE BLANK

Lenses are _____ materials that have a curved edge. Two types of lenses exist. These are convex and concave lenses. A convex lens is also called a _____ lens whereas, a concave lens can be called a _____ lens.

SECTION 2: LENS TERMS

Choose from the drop down list the letter that matches the lens terminology with its location in the diagram below



<i>Optical center</i>	
<i>Focal point</i>	
<i>Focal length</i>	
<i>Principal axis</i>	

SECTION 3: IMAGE FORMATION IN LENSES

MULTIPLE CHOICE: TYPE THE CORRECT LETTER IN THE BOXES BELOW

2) Convex lens always gives a real image if the object is situated beyond _____.

- a. Focal point
- b. Principal axis
- c. Focal length
- d. Focal plane

4) Where should an object be placed so that a real and inverted image of the **same size** is obtained, using a convex lens?

- a. Between O and F
- b. At F
- c. At 2F
- d. At infinity

6) Real images formed by single convex lenses are always _____.

- a. On the same side of the object
- b. Smaller than the object
- c. Inverted
- d. erect

8) When a person uses a convex lens as a simple magnifying glass, the object must be placed at a distance

- a. less than one focal length
- b. more than one focal length
- c. less than twice the focal length
- d. more than twice the focal length

9) The image produced by a concave lens is _____.

- a. always virtual and enlarged
- b. always virtual and reduced in size
- c. always real
- d. sometimes real, sometimes virtual

TRUE & FALSE

1. A projector uses a convex lens. _____
2. A virtual image cannot be projected onto a screen. _____
3. A magnifying glass forms a real image. _____
4. In order for the image formed by a convex lens to be the same size as an object, the object needs to be placed at a distance of $2F$. _____
5. The human eye has a convex lens. _____